

REMARKS

Applicants have carefully reviewed the Office Action dated March 25, 2003 for the above-referenced application. Claims 1-17 are pending in the Office Action, wherein the Examiner has rejected claims 1-17. Amendments to claims 1-2, 7-8 and 12-13 and the accompanying remarks are being submitted in response to the Office Action. Reexamination and reconsideration is respectfully requested.

As a preliminary matter, Applicants note that the Information Disclosure Statements filed December 17, 2001 and August 3, 2002 were received by the Patent Office, yet Applicants have not received an initialed and dated copy of the 1449s that had been filed with the Information Disclosure Statements. Applicants respectfully request that the Examiner return initialed and dated copies of these 1449s with the next communication from the Office.

In the Office Action, the Examiner objected to the Specification under 37 C.F.R. § 1.71(a)-(c), asserting a need for clarification to multiple portions of the Specification. The Specification has been amended in accordance with the Examiner's suggestion to more clearly describe the invention. Applicants respectfully assert that no new matter has been added with these amendments.

In view of the Specification, amendments to the Drawings, namely Figures 1 and 2, showing changes in red, have been submitted with this Amendment. An additional drawing, Figure 14, has been submitted in response for a need of clarification of the invention, and its inclusion in the Drawings is respectfully requested. Approval by the Examiner and submission of the amended Drawings is respectfully requested. Applicants respectfully assert that no new matter has been added by the Drawings. Formal submission of these new and amended drawings to the Official Draftsman will be submitted at a later date.

The Examiner rejected claims 1-17 under 35 U.S.C. § 112, first paragraph, as containing subject matter which is not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claims 1-2, 7-8 and 12-13 have been amended in accordance with the Specification.

The Examiner asserted that claim 1 contained language not supported by the Specification. Claim 1, as amended, is clearly supported by the specification, namely page 5 and accompanying Figure 1. The number of teeth and the number of teeth groups in this embodiment is 12, but may be altered in accordance with the invention. As shown in the

equations included in the application, the number of teeth is a variable and can be specified for a selected motor. As shown in Figure 14, each tooth is located at the most forwarding position in the rotation direction in one of the teeth groups. Additionally, each coil is wound about one of the teeth groups. Applicants respectfully assert that one skilled in the art to which the invention pertains would appreciate the invention through the Specification and the accompanying Drawings.

The Examiner asserted that claim 7 contained language not supported by the Specification. Applicants respectfully direct the Examiner to page 17 of the Specification and accompanying Figure 7. Figure 7 illustrates a preferred embodiment of the invention wherein the number of teeth belonging to the same group, represented by n , is five. In this embodiment having a predetermined angle as shown in the associated equations, when the circumferential center of the first tooth is aligned with the most forwarding portion of the main portion in the rotation direction of the armature, the most trailing end of the main portion in the rotation direction of the armature is aligned with the forwarding end of the n th tooth in the rotation direction of the armature. Applicants respectfully assert that the subject matter of claim 7 is sufficiently supported by the Specification and the accompanying Drawings.

The Examiner asserted that claim 8 contained language not supported by the Specification. Applicants respectfully direct the Examiner to page 18 of the Specification and accompanying Figure 8. Figure 8 illustrates a preferred embodiment of the invention wherein the number of teeth belonging to the same group, represented by n , is five. In this embodiment having a predetermined angle as shown in the associated equations, when the circumferential center of the first tooth is aligned with the most forwarding portion of the main portion in the rotation direction of the armature, the most trailing end of the main portion in the rotation direction of the armature is aligned with the trailing end of the $(n-1)$ th tooth in the rotation direction of the armature. Applicants respectfully assert that the subject matter of claim 8 is sufficiently supported by the Specification and the accompanying Drawings.

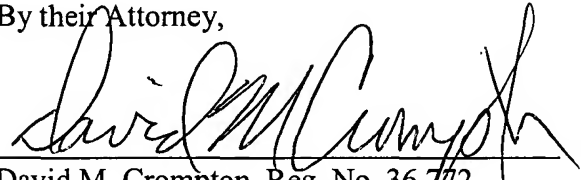
Reexamination and reconsideration of the above-referenced patent application is respectfully requested. Applicants submit that all objections to the Specification have been overcome and that all pending claims are in condition for allowance. Issuance of a Notice of Allowance in due course is anticipated. If a telephone conference concerning this matter may be of assistance, please contact the undersigned attorney at 612-677-9050.

Respectfully submitted,

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By their Attorney,

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